RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ *10/558, 627*

Source: _____ *IFWO*

Date Processed by STIC: _____ *10/27/2006*

ENTERED

RAW SEQUENCE LISTING   DATE: 10/27/2006
PATENT APPLICATION: US/10/558,627   TIME: 12:11:13

Input Set : A:\X-16821.ST25.txt
Output Set: N:\CRF4\10272006\J558627.raw

```
    3 <110> APPLICANT: Wolfgang Glaesner, et al.
    5 <120> TITLE OF INVENTION: Fusion Proteins
    7 <130> FILE REFERENCE: X-16821
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/558,627
C--> 9 <141> CURRENT FILING DATE: 2005-11-29
    9 <150> PRIOR APPLICATION NUMBER: 60/477880
   10 <151> PRIOR FILING DATE: 2003-06-12
   12 <150> PRIOR APPLICATION NUMBER: 60/570908
   13 <151> PRIOR FILING DATE: 2004-05-13
   15 <160> NUMBER OF SEQ ID NOS: 9
   17 <170> SOFTWARE: PatentIn version 3.3
   19 <210> SEQ ID NO: 1
   20 <211> LENGTH: 230
   21 <212> TYPE: PRT
   22 <213> ORGANISM: Artificial
   24 <220> FEATURE:
   25 <223> OTHER INFORMATION: Synthetic Construct
   28 <220> FEATURE:
   29 <221> NAME/KEY: MISC_FEATURE
   30 <222> LOCATION: (1)..(1)
   31 <223> OTHER INFORMATION: Xaa at position 1 is Ala or absent
   33 <220> FEATURE:
   34 <221> NAME/KEY: MISC_FEATURE
   35 <222> LOCATION: (16)..(16)
   36 <223> OTHER INFORMATION: Xaa at position 16 is Pro or Glu
   38 <220> FEATURE:
   39 <221> NAME/KEY: MISC_FEATURE
   40 <222> LOCATION: (17)..(17)
   41 <223> OTHER INFORMATION: Xaa at position 17 is Phe, Val, or Ala
   43 <220> FEATURE:
   44 <221> NAME/KEY: MISC_FEATURE
   45 <222> LOCATION: (18)..(18)
   46 <223> OTHER INFORMATION: Xaa at position 18 is Leu, Glu, or Ala
   48 <220> FEATURE:
   49 <221> NAME/KEY: MISC_FEATURE
   50 <222> LOCATION: (80)..(80)
   51 <223> OTHER INFORMATION: Xaa at position 80 is Asn or Ala
   53 <220> FEATURE:
   54 <221> NAME/KEY: MISC_FEATURE
   55 <222> LOCATION: (230)..(230)
   56 <223> OTHER INFORMATION: Xaa at position 230 is Lys or is absent
   58 <400> SEQUENCE: 1
W--> 60 Xaa Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Xaa
```

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```
       61 1              5                10               15
W-->   64 Xaa Xaa Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
       65            20                25               30
       68 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
       69 .        35                40                45       .
       72 Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
     . 73   . . 50               55                60 .   . .   .   . .
W-->   76 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Xaa
       77 65               70                75               80
       80 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
       81            85                90               95
       84 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
       85            100               105               110
       88 Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
       89            115               120               125
       92 Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn
       93    130               135                140
       96 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
       97 145            150                 155              160
      100 Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
      101            165               170               175
      104 Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg
      105            180               185               190
      108 Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys
      109            195               200               205
      112 Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
      113       210               215               220
W-->  116 Ser Leu Ser Leu Gly Xaa
      117 225               230                               J
      120 <210> SEQ ID NO: 2
      121 <211> LENGTH: 15
      122 <212> TYPE: PRT
      123 <213> ORGANISM: Artificial
      125 <220> FEATURE:
      126 <223> OTHER INFORMATION: Synthetic Construct
      128 <400> SEQUENCE: 2
      130 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
      131 1              5                10               15
      134 <210> SEQ ID NO: 3
      135 <211> LENGTH: 6
      136 <212> TYPE: PRT
      137 <213> ORGANISM: Homo sapiens
      139 <400> SEQUENCE: 3
      141 Pro Pro Cys Pro Ser Cys
      142 1              5
      145 <210> SEQ ID NO: 4
      146 <211> LENGTH: 22
      147 <212> TYPE: PRT
      148 <213> ORGANISM: Artificial
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150 <220> FEATURE:
151 <223> OTHER INFORMATION: Synthetic Construct
153 <400> SEQUENCE: 4
155 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
156 1   5   10   15
159 Ser Gly Gly Gly Gly Ser
160   20
163 <210> SEQ ID NO: 5
164 <211> LENGTH: 825
165 <212> TYPE: DNA
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 5
169 cacggcgagg gcaccttcac ctccgacgtg tcctcctatc tcgaggagca ggccgccaag   60
171 gaattcatcg cctggctggt gaagggcggc ggcggtggtg gtggctccgg aggcggcggc   120
173 tctggtggcg gtggcagcgc tgagtccaaa tatggtcccc catgcccacc ctgcccagca   180
175 cctgaggccg ccggggggacc atcagtcttc ctgttccccc caaaacccaa ggacactctc   240
177 atgatctccc ggacccctga ggtcacgtgc gtggtggtgg acgtgagcca ggaagacccc   300
179 gaggtccagt tcaactggta cgtggatggc gtggaggtgc ataatgccaa gacaaagccg   360
181 cgggaggagc agttcaacag cacgtaccgt gtggtcagcg tcctcaccgt cctgcaccag   420
183 gactggctga cggcaaggga gtacaagtgc aaggtctcca caaaggcct cccgtcctcc   480
185 atcgagaaaa ccatctccaa agccaaaggg cagccccgag agccacaggt gtacaccctg   540
187 cccccatccc aggaggagat gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc   600
189 ttctacccca gcgacatcgc cgtggagtgg gaaagcaatg ggcagccgga gaacaactac   660
191 aagaccacgc ctcccgtgct ggactccgac ggctccttct tcctctacag caggctaacc   720
193 gtggacaaga gcaggtggca ggaggggaat gtcttctcat gctccgtgat gcatgaggct   780
195 ctgcacaacc actacacaca gaagagcctc tccctgtctc tgggt   825
198 <210> SEQ ID NO: 6
199 <211> LENGTH: 30
200 <212> TYPE: PRT
201 <213> ORGANISM: Artificial
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Synthetic Construct
206 <400> SEQUENCE: 6
208 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
209 1   5   10   15
212 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
213   20   25   30
216 <210> SEQ ID NO: 7
217 <211> LENGTH: 25
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Synthetic Construct
224 <400> SEQUENCE: 7
226 Asp Ala Ala Ala Lys Glu Ala Ala Ala Lys Asp Ala Ala Ala Arg Glu
227 1   5   10   15
230 Ala Ala Ala Arg Asp Ala Ala Ala Lys
231   20   25
234 <210> SEQ ID NO: 8

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Input Set : **A:\X-16821.ST25.txt**
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```
235 <211> LENGTH: 14
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Synthetic Construct
242 <400> SEQUENCE: 8
244 Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg
245 1               5               10
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/27/2006
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,16,17,18,80,230

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,4,6,7,8

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/558,627**

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Input Set : **A:\X-16821.ST25.txt**
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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:224